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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,748	06/06/2006	Atsuo Kondo	128342	8488
25944 OLIFF & BERI	7590 03/30/200 RIDGE, PLC	EXAMINER		
P.O. BOX 3208	350	VAN, QUANG T		
ALEXANDRIA, VA 22320-4850			ART UNIT	PAPER NUMBER
			3742	
			MAIL DATE	DELIVERY MODE
			03/30/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/581,748	KONDO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Quang T. Van	3742			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 29 De	ecember 2008				
• • • • • • • • • • • • • • • • • • • •	action is non-final.				
<i>,</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>12-18,23 and 24</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>12-18,23 and 24</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10) The drawing(s) filed on <u>06 June 2006</u> is/are: a)		by the Examiner.			
Applicant may not request that any objection to the c	· · · · · · · · · · · · · · · · · · ·				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attach manut/a)					
Attachment(s) 1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Praftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate			
3) Information Disclosure Statement(s) (PTO/SB/08)					
Paper No(s)/Mail Date 6) Other:					

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Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 12-18 and 23-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miller et al (US 7,091,481) in view of Miller et al (US 7,274,015). Miller'481 discloses a method and apparatus for plasma generation comprising at least two plate-shaped unit electrodes (14, 16) each of which faces each other (Figures 16C-16D) and capable of generating plasma upon application of a voltage between the unit electrodes (14,16), at least one of the unit electrodes (14,16) each of which faces each other including a plate-shaped ceramic dielectric (34-35) having a plurality of grooves (24e, 26e) and/or a plurality of recesses (24r, 26r) formed in at least one surface, and a conductive film (14m, 16m) disposed inside the ceramic dielectric (34,35), the plasma generating electrode capable of generating high-density plasma in the vicinity of edges formed by a surface of the ceramic dielectric (34-35) and side surfaces of the grooves (24e,26e) and/or the recesses (24r,26r) upon application of a voltage between the unit electrodes, the high-density plasma having a density higher than that of plasma generated between the unit electrodes in an area other than the vicinity of the edges (col. 13, lines 63-67 and col. 14, lines 1-5). However, Miller'481 does not disclose a conductive film embedded within the ceramic dielectric. Miller'015 discloses a conductive film (52b of Figure 10; 14,16 of Figures 14A-B) embedded within a ceramic

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dielectric (50, 34). It would have been obvious to one ordinary skill in the art at the time the invention was made to utilize in Miller'481 a conductive film embedded within the ceramic dielectric as taught by Miller'015 in order to prevent expose direct to the sample gas. With regard to claim 14, it would have been obvious to one ordinary skill in the art at the time the invention was made to make each of the grooves and/or the recesses has a thickness from surface of the ceramic dielectric to a bottom of the groove and/or the recess of 3 to 200µm in order to suit for their specific application.

Response to Amendment

- 3. Applicant's arguments with respect to claims 12-18 and 23-24 have been considered but are most in view of the new ground(s) of rejection.
- 4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang T. Van whose telephone number is 571-272-4789. The examiner can normally be reached on 8:00Am 5:00Pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu Hoang can be reached on 571-272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Quang T Van/ Primary Examiner, Art Unit 3742 March 25, 2009 Quang T Van Primary Examiner Art Unit 3742